

Comparisons of Job Characteristics

Focus Occupation: [Electro-Mechanical Technicians \(17-3024\)](#)

Associated Occupation: [Electrical and Electronics Repairers, Powerhouse, Substation, and Relay \(49-2095\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	17.1	15.6	0	Current knowledge level may be sufficient
Design	5.2	13.2	7.8	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	6.6	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	12.2	16.1	>>	Current knowledge level is likely more than sufficient
Physics	4.3	10.1	6.6	<<	Extensive education and/or training may be required
Telecommunications	3.9	10.0	3.0	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	9.3	14.2	>>	Current knowledge level is likely more than sufficient
Building and Construction	4.0	8.4	3.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 71

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	11.4	10.8	0	Current skill level may be sufficient
Repairing	3.4	11.1	12.3	>	Skill level is likely sufficient

Troubleshooting	4.5	10.7	12.8	>	Skill level is likely sufficient
Quality Control Analysis	5.9	10.2	12.9	>	Skill level is likely sufficient
Operation Monitoring	6.6	10.0	13.9	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	5.6	9.2	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Electro-Mechanical Technicians (17-3024)

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	10.3	12.0	>	Current ability level is likely sufficient
Visualization	7.5	10.1	10.8	0	Current ability level may be sufficient
Control Precision	6.6	10.0	12.1	>	Current ability level is likely sufficient
Selective Attention	8.7	10.0	11.4	>	Current ability level is likely sufficient
Finger Dexterity	7.6	9.8	12.5	>	Current ability level is likely sufficient
Manual Dexterity	6.5	9.4	11.6	>	Current ability level is likely sufficient
Visual Color Discrimination	6.4	9.3	10.6	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Work Activities	Exclusivity of Activity
Analyze test data	64
Fabricate, assemble, or disassemble manufactured products by hand	11
Install/connect electrical equipment to power circuit	57
Read blueprints	10
Read schematics	34
Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electro-Mechanical Technicians (17-3024)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.	
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Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.